Project Name: Phase 2 of Berth N-2 Reconstruction MOTBY

Recipient: Bayonne Local Redevelopment Authority

Address: 51 Port Terminal Boulevard, Suite 21, Bayonne NJ 07002

Amount Requested: $4,130,000 million

Project Description: The project would carry out the second phase of reconstruction and stabilization of decaying bulkhead and eroding shoreline of the N2 berth area of MOTBY. This phase would reconstruct and stabilize the remaining 930 linear feet of decaying bulkhead and eroding shoreline.

Explanation/Value to Taxpayer: Reconstruction of Berth N2 at former MOTBY, combined with the recently-completed extension of the Berth N1 platform, would provide over 2,600 linear feet of functional deep water berthing capacity on the Bayonne side of the Port Jersey Channel to accommodate large military and other federal vessels in the event of a national emergency affecting the New York Harbor Region and in support of naval operations in wartime. The adjacent ship repair facility is regularly utilized by U.S. naval vessels, including ships heading to and returning from missions supporting American troops in the Iraq and Afghanistan. The project also fully supports the $200-million federal investment in the U.S. Army Corps of Engineers Port Jersey Deeping Project by doubling the functional berth capacity on the Bayonne side of the Port Jersey Channel and providing a unique defense contingency port capability. By doubling the current 1,300 linear feet of functional berth capacity on the Bayonne side of the federally-deepened (50') Port Jersey Channel, the MOTBY Berth N2 Reconstruction Project would generate maritime-related jobs, construction jobs and many other jobs in manufacturing and fabrication.

Project Name: Pediatric Cancer Research and Clinical Trials

Recipient: Curesearch - National Childhood Cancer Foundation

Address: 4600 East West Highway, Suite 600, Bethesda, MD 20814

Amount Requested: $10,000,000

Project Description: This funding would support research to provide genomic analysis of all major pediatric cancer types, conduct SNP arrays on 6,000 Acute Leukemia samples with matched germ line DNA, and conduct gene sequencing of target genes and gene regions. The funding would enhance important ongoing pediatric cancer clinical trials support the creation of significant, new clinical trials and prevent the discontinuation of critical childhood cancer trials. The project would support and expand upon existing DOD translational research, specifically, genome wide screening for therapeutic targets in high risk childhood cancer.

Explanation/Value to Taxpayer: This request would be used by some 200 member research institutions around the country. The funding would be used to enhance childhood cancer research benefiting children of military families, civilian DOD employees, and other children afflicted with childhood cancer. It would also support existing DOD translational research in high risk childhood cancer targeting new agents against highly resistant, poor prognosis diseases.

Project Title: Bioterrorism & Battlefield Medical Solutions

Recipient: Hackensack University Medical Center Foundation

Address: 360 Essex Street, Suite 301, Hackensack, NJ 07061

Amount Requested: $5,000,000

Project Description: Continuing the five year partnership with the Defense Threat Reduction Agency (DTRA), Hackensack University Medical Center is building on the successful Mobile Rapid Response Prototype (MRRP) program -- designed to mitigate the effects of chemical, biological, radiological, exposures and other large casualty events -- by addressing gaps in associated medical research targeting therapies and prophylatic measures that DTRA's Therapeutic Medical Technologies Initiative (TMTI) considers effective against multiple pathogens. One of the areas the project would focus on is developing medical solutions for exposure to and infection with Class A, B, and other highly infectious agents. HUMC would conduct novel research consistent with TMTI priorities, resulting in improving treatment options against pathogens of interest to DOD for Force Protection and health.

Explanation/Value to Taxpayer: This project would advance promising research that would result in the development of drugs that would prevent exposed war fighters, first responders, and US population from developing disease associated with the targeted weaponized pathogens -- including Anthrax, smallpox, and influenza virus. Researchers would develop new approaches to protecting military personnel and the US population against pandemic influenza and other infectious agents on a more routine basis. Drugs being developed should also have major spin-off value in terms of treating chronic diseases of concern to DOD, including autoimmunity, cardiovascular disease and post-traumatic brain injury, a major morbidity of recent veterans.

Project Name: Center for Microplasma Science and Technology (CMST)

Recipient: Saint Peter's College

Address: 2641 Kennedy Boulevard, Jersey City, NJ 07306

Amount Requested: $1,500,000

Project Description: The requested funds would be used to continue to fund the current research and educational programmatic activities of the Center for Microplasma Science & Technology (CMST). The CMST is the National Center of Excellence in microplasma science and technology which serves as the only topical scientific and educational forum devoted entirely to this emerging field in the United States. The Center has worked as a clearinghouse to establish cross-fertilization efforts between microplasma research and other scientific fields. Since two of the largest commercial applications of microplasmas are plasma displays and environmental remediation applications such as ozone generation for drinking water purification, the microplasma field remains further poised to contribute further advances.

Explanation/Value to Taxpayer: CMST is the National Center of Excellence in microplasma science and technology which serves as the only topical scientific and educational forum devoted entirely to this emerging field in the United States. The CMST has worked to unify what is currently a fragmented effort of university and industrial research laboratories located all over the country. The establishment of the CMST at Saint Peter's College has allowed a national base of operations to help mediate and comprehensively organize all national research efforts in this field for defense and other national interests. Further, the emerging miroplasma applications is a remarkable fertile field for small, high-tech start-up companies which continue to perceive this field as a favorable innovation source for marketplace realization of basic plasma concepts. Locating the Center within an institution of higher education has helped stimulate educational outreach to young scientists and underrepresented minorities pursuing science careers.

Project Title: Thomas Edison State College Mobile Learning Initiative

Recipient: Thomas Edison State College

Address: 101 W. State Street, Trenton, NJ 08608

Amount Requested: $1,000,000

Project Description: Funding would be used to recreate the online classroom experience in an offline environment for students, by providing fully self-contained courses delivered via flash media that simulate the online course experience, featuring cloud computing-based applications that enhance delivery in an offline environment. This funding would allow Thomas Edison State College to develop approximately 87 more FlashTrack technology courses and hire 5 staff members to assist with managing the development of the courses.

Explanation/Value to Taxpayer: This project would enable large numbers of students who have unreliable Internet access, or whose access is restricted, to participate in online courses either through cell phone technology or in a totally offline environment. Making it easier for students to stay in school would benefit taxpayers by increasing earnings potential of the college's graduates.